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Phenomena of Jupiter's Satellites observed at Mr. E. Crossley's Observatory, Bermerside, Halifax, during the Opposition 1882–3.

By J. Gledhill.

Date.	Phenomena.	G.M.T.			Time in *N. Almanac.*			Remarks.
		h	m	s	h	m	s	
1882. Nov. 11	I. Tr. I. First contact	9	38	0	9	37	0	Definition poor to-night.
	Inner contact		42	0				
	I. Sh. E. Just off	10	57	0	11	0	0	
	I. Tr. E. Inner contact	11	49	0	11	52	0	
	Outer contact		52	0				
14	II. Tr. I. First contact	11	8	0	11	9	0	Much tremulous motion.
	Inner contact		11	0				
	II. Sh. E. Inner contact	12	15	0	12	15	0	
	Just off		18	0				
27	I. Sh. E. Just off?	9	18	0	9	17	0	Very bad definition.
	I. Tr. E. Inner contact	9	46	0	9	48	0	
	Outer contact		48	0				
1883. Jan. 20	I. Ec. R. First seen	8	43	45	8	44	5	Good observation.
29	III. Tr. I. First contact	7	23	0	7	25	0	
	Bisection		29	0				
	Inner contact		32	0				
Feb. 4	I. Tr. E. Inner contact	8	47	0	8	51	0	
	Bisection		50	0				
	Just off		52	0				
11	I. Tr. E. Just off	10	41	0	10	41	0	Clouds interrupted the observations.
12	I. Ec. R. First seen	8	59	28	8	59	45	
27	*II. Ec. R. First seen	8	55	54	8	56	0	Fairly good observations.
	* Full orb	8	58	0				
Mar. 14	I. Ec. R. First seen	11	11	43	11	11	46	
	Full orb		15	0				
23	I. Ec. R. First seen	7	36	25	7	36	34	
	Full orb		40	0				
31	I. Sh. E. First contact	6	42	0	6	47	0	
	Bisection		44	0				
	Just off		46	0				

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* Mr. Crossley was at the telescope during the observations thus marked.

Date.	Phenomena.			G.M.T.			Time in *N. Almanac.*			Remarks.
1883.				h	m	s	h	m	s	
Mar. 31	III.	Oc. R.	Half out	6	50	0	6	58	0	
			Just off		52	0				
	II.	Ec. R.	First seen	8	35	21	8	35	14	
			Full orb		39	0				
	III.	Ec. D.	Fading?	9	10	0	9	16	41	
			Certainly fading	9	11	0				
			Fading fast	9	12	0				
			Half gone	9	14	0				
			Easily seen	9	18	0				
			Just gone	9	19	26				
	III.	Ec. R.	First seen	12	3	22	12	4	49	
Apr. 6	I.	Oc. D.	Outer contact	7	57	30	8	0	0	Good sky.
			Bisection	8	0	0				
			Gone	8	2	0				
	I.	Ec. R.	First seen	11	28	0	11	28	3	
			Full orb	11	31	0				Uncertain; planet low.
7	I.	Tr. E.	Inner contact	7	26	0	7	29	0	Fair observations.
			Bisection		28	0				
			Outer contact		30	0				
	III.	Oc. D.	First contact	8	17	0	8	20	0	Fair observations.
			Bisection		21	0				
			Just gone		23	0				
	I.	Sh. E.	Inner contact	8	35	0	8	42	0	Uncertain observations; misty.
			Bisection?		37	0				
			Off?		39	0				
16	II.	Sh. E.	Inner contact	8	35	0	8	43	0	Windy; cloudy.
			Just off	8	40	0				
22	I.	Ec. R.	First seen	9	48	0	9	48	8	Cloudy.
			Half light		50	0				
			Full		53	0				

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Ephemeris for Physical Observations

Greenwich Noon.	Angle of Position of ♃'s Axis.	Latitude of Earth above ♃'s Equator.	Latitude of Sun above ♃'s Equator.	A−L.	O−L.	Longitude of ♃'s Central Meridian.	Cor. for Phase.
1883.	°	°	°	°	°	°	°
Sept. 16	13·340	+1·115	+1·346	−9·066	16·876	184·70	+0·36
21	13·662	1·079	1·326	9·482	16·048	216·29	·39
26	13·963	1·044	1·306	9·853	15·265	247·95	·42
Oct. 1	14·243	1·010	1·285	10·176	14·531	279·67	·45
6	14·501	+0·977	+1·265	−10·448	13·849	311·45	+0·47
11	14·736	·945	1·245	10·664	13·223	343·30	·49
16	14·947	·915	1·225	10·821	12·655	15·21	·51
21	15·133	·886	1·205	10·915	12·150	47·19	·52
26	15·294	·858	1·185	10·943	11·713	79·24	·52
31	15·428	·832	1·164	10·900	11·347	111·36	·52
Nov. 5	15·535	+0·808	+1·144	−10·783	11·054	143·56	+0·51
10	15·614	·786	1·124	10·590	10·838	175·83	·49
15	15·664	·767	1·103	10·317	10·702	208·17	·46
20	15·685	·750	1·083	9·963	10·647	240·58	·43
25	15·677	·735	1·063	9·527	10·675	273·05	·39
30	15·639	·722	1·042	9·008	10·786	305·59	·35
Dec. 5	15·571	+0·712	+1·021	−8·408	10·979	338·20	+0·31
10	15·475	·705	1·001	7·728	11·251	10·87	·26
15	15·351	·700	0·980	6·973	11·599	43·58	·21
20	15·200	·698	·959	6·146	12·019	76·33	·16
25	15·023	·698	·939	5·254	12·505	109·12	·12
30	14·824	·700	·918	4·304	13·049	141·93	·08
1884.							
Jan. 4	14·605	+0·704	+0·897	−3·307	13·640	174·76	+0·05
9	14·370	·710	·876	2·273	14·268	207·59	·02
14	14·124	·718	·856	1·214	14·922	240·40	+ ·01
19	13·870	·727	·835	−0·140	15·591	273·19	·00
24	13·612	·736	·814	+0·935	16·262	305·94	·00
29	13·356	·747	·793	1·993	16·921	338·64	− ·02